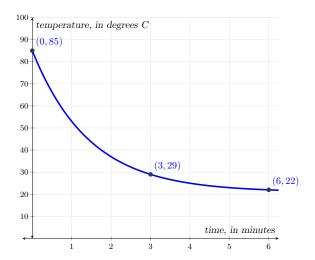
Exercise 1 The graph below shows the temperature T, in degrees Celsius, of an object at time t, in minutes.



(a) Based on the graph above, is this object heating up or cooling down?

Multiple Choice:

- (i) Heating Up
- (ii) Cooling Down ✓
- (b) What is the rate of change in this data between the point corresponding to t=0 minutes, and the point corresponding to t=3 minutes? $\boxed{-56/3}$ degrees Celsius/minute.

Hint: Recall that the rate of change between two data points is given by $\frac{\Delta T}{\Delta t}$.

- (c) What is the rate of change in this data between the point corresponding to t=3 minutes, and the point corresponding to t=6 minutes? $\boxed{-7/3}$ degrees Celsius/minute.
- (d) Based on the your answers above, does this data always have the same rate of change?

Multiple Choice:

- (i) Yes
- (ii) No ✓